

# Annual Meeting 2018

International Neuroethics Society  
San Diego, CA, USA  
November 1-2, 2018



INS (International  
Neuroethics  
Society)



MEETING REPORT



Under the California sunshine, the 2018 Annual Meeting of the International Neuroethics Society took place in San Diego on November 1–2, 2018. Scientists, clinicians, and students from a variety of disciplines gathered to share their research and insights with international colleagues. The meeting featured a wide range of scientific lectures, discussions, and networking opportunities for INS members and others working in the fields of neuroethics, ethics, and neuroscience.

## Message from the President

“Cutting edge neuroscience, cutting edge neuroethics” was the theme of this year’s INS Annual Meeting. With the expansion of technology in areas like human brain organoids and digital mental health care, it has never been more important to bring experts together to discuss the ethical, social and legal consequences of these developments.

Priorities and opinions differ across, and within, cultures. We can all learn from each other. The INS plays a crucial role here. Our Annual Meeting provides a platform for the exchange of views among thinkers from all over the world, from field leaders to new scholars, from neuroscientists to humanists and everything between.

My special thanks go to the Program Committee chaired by Steve Hyman and Ariel Cascio for masterminding an outstanding series of lectures, panel discussions and presentations. The posters demonstrated some of the high quality of research currently being conducted in neuroethics. The meeting was a great success—but that’s not just me saying so: based on the feedback we’ve gotten, those at the meeting agree.

In 2019 our Annual Meeting will be in Chicago, USA, October 17 and 18, again as a satellite of the Society for Neuroscience annual meeting. We look forward to seeing you there.

Hank Greely  
INS President



## INTERDISCIPLINARY, DIVERSE BACKGROUNDS

Neuroethics, Bioethics, Medicine, Law,  
Philosophy, Psychology, Academia, and Journalism

PARTICIPANTS

## 15 COUNTRIES REPRESENTED, 150 ATTENDEES

Australia, Canada, Germany, Hong Kong, Mexico, India,  
Japan, The Netherlands, Puerto Rico, South Korea, Spain,  
Switzerland, Turkey, United Kingdom, United States

### 2-DAY PROGRAM

- 3 plenary speakers
- 4 panel discussions
- 1 public event

### ORIGINAL RESEARCH

- 45 poster presentations
- 7 oral presentations
- 13 travel stipends awarding  
more than \$7,000 USD

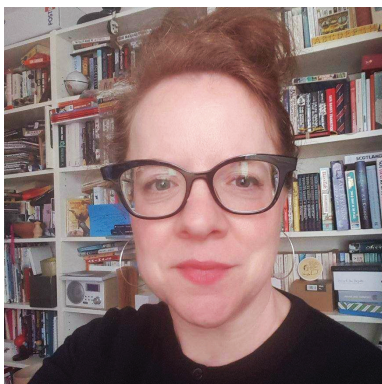
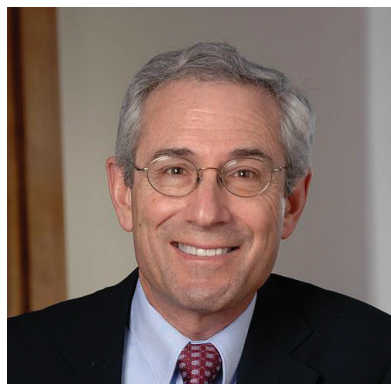
*"It's the one forum where we discuss the broad ethical implications of cutting edge neuroscience." Tom Insel, INS Board member and Founder of Mindstrong Health*



## Plenary Speakers

Among the highlights were plenary lectures on:

- ‘Digitally Decoding Brain and Behavior’ by Tom Insel, INS Board member and President of Mindstrong Health (pictured left)
- ‘Managing Neuroinformation, Protecting Identity’ by the rising star plenary lecturer Emily Postan, University of Edinburgh (pictured middle)
- ‘Values, Science, and Public Policy Toward the Opioid Epidemic’ by Keith Humphries, Stanford University (pictured right)



## Public Program

Each year the INS works with partners to host a public program for meeting attendees and the local community. Previous events have featured talks on the safety of American football, robots in society, and neurogaming. To propose a talk at a future INS annual meeting, please contact Karen Graham ([kgraham@neuroethicssociety.org](mailto:kgraham@neuroethicssociety.org)).

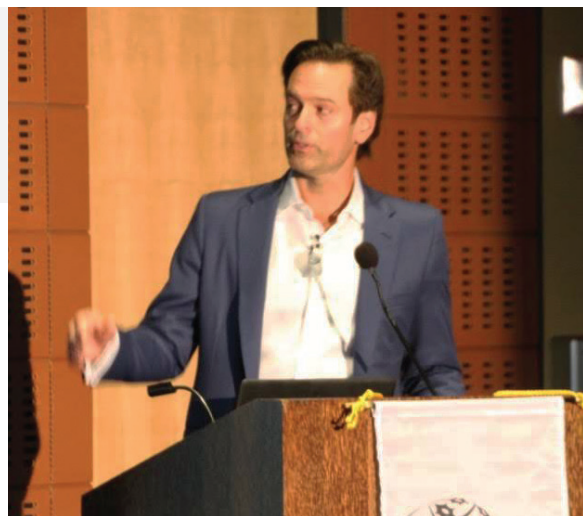
### My Brain Made Me Buy It? The Neuroethics of Advertising

Developed in partnership with the Center for Ethics in Science and Technology in San Diego, this session was free and open to the public. It featured Dr. Carl Marci with discussants Read Montague and Uma R. Karmarkar led by Steve Hyman, Stanley Center for Psychiatric Research at the Broad Institute and INS Founding President.

- Carl Marci, Nielsen Consumer Neuroscience (pictured below)
- Read Montague, Virginia Tech Carilion Research Institute (discussant)
- Uma R. Karmarkar, University of California, San Diego (discussant)

*“Despite the fact that the consumer neuroscience industry is continuing to grow, there are still questions and concerns raised about whether they are socially and ethically acceptable.” Carl Marci*

*The INS strives to organize an inclusive scientific program with a diverse representation of disciplines, viewpoints and personal backgrounds of contributors. Financial support is essential to ensure the INS can invite expert speakers from around the world.*





### Digitally Decoding Brain & Behavior

Smartphones, wearables and environmental sensors offer benefits such as digital phenotyping for early signals of depression, psychosis, or seizures. What are the potential unintended consequences of this new technology? Following his plenary talk of the same title, Tom Insel, Mindstrong Health (USA), moderated this session with speakers:

- Oliver Harrison, Alpha Health, Telefonica (Spain)
- Nicole Martinez, Stanford University (USA)
- Camille Nebeker, University of California, San Diego (USA)
- Tanzeem Choudhury, Cornell University (USA)

### DBS: Continuity of Self?

There is disagreement about whether deep brain stimulation (DBS) causes personality changes, and if so whether such changes generate any cause for concern. To examine these questions, Hannah Maslen, University of Oxford (UK), moderated a discussion among:

- Winston Chiong, Univ. of California, San Francisco (USA)
- Jonathan Pugh, University of Oxford (UK)
- Cynthia Kubu, Cleveland Clinic (USA)
- Frederic Gilbert, University of Tasmania (Australia)



### Genetics, Behavior, and Society

Panelists described recent discoveries in sociogenomics and discussed the implications of findings for policy and social action. The session was moderated by Ariel Cascio, Institut de recherches cliniques de Montréal (Canada).

- Dalton Conley, Princeton University (USA)
- Kathryn Asbury, University of York (UK)
- Aaron Panofsky, University of California, Los Angeles (USA)



### Brain Surrogates: Perceptions and Reality

Various models are now being developed with human brain tissue that have the potential to provide a much more accurate representation of normal and abnormal brain function and development. To differentiate the hype from here-and-now, this session, moderated by Nita Farahany, Duke Law School (USA), included important scientific and ethical perspectives from:

- Giorgia Quadrato, Harvard University (USA)
- Nenad Sestan, Yale University (USA)
- Laurie Zoloth, University of Chicago (USA)
- Khara Ramos, U.S. National Institutes of Health (USA)



## Steven E. Hyman Award

Helen Mayberg, INS Board member and Professor of Neurotherapeutics at the Icahn School of Medicine at Mount Sinai (USA), pictured between Hank Greely and Judy Illes, was the 2018 recipient of the *Steven E. Hyman Award for Distinguished Service to the Field of Neuroethics*.

## Oral Presentations

The following authors delivered 7-minute presentations on their neuroethics research.

- Ann Fink, Lehigh University (USA)
- Anita Jwa, Stanford Law School (USA)
- Iris Coates McCall, UBC (Canada)
- Alex McKeown, University of Oxford (UK)
- Nicholas Sinclair-House, Univ. of Sussex (UK)
- Anna Wexler, University of Pennsylvania (USA)
- Peter Zuk, Baylor Univ. / Rice University (USA)



## Essay Contest

Each year the INS holds a neuroethics essay contest for students and postdocs. The 2018 winning authors, from the academic and science communication categories, were recognized at the meeting and their essays were published by The Dana Foundation.

- Academic: 'Personhood: Projection or Perception?' – Soren Vale Evers, North Carolina State University (USA)
- Scienc Communication: 'Not Our Problem? The Neuroethical Implications of Youth Detainment' – Jean Ngoc Boulware, The University of Chicago (USA)

## Poster Presentation Awards

From the 45 poster presentations, attendees voted for the top poster and judges recognized the following authors for their excellent work, each receiving book prizes.

- Katherine Bassil, Maastricht University (Netherlands)
- Iris Coates McCall, University of British Columbia (Canada)
- Caitlin Courchesne, University of British Columbia (Canada)
- Amanda Courtright-Lim, Cardiff University (UK)
- Alexandre Erler, Chinese University of Hong Kong (Hong Kong)
- Rhian Evans, Bart's and The London School of Medicine and Dentistry (UK)
- Anita Jwa, Stanford Law School (USA)
- Gabe Lázaro, Baylor College of Medicine (USA)
- Joncarmen Mergenthaler, UCSF (USA) (*Awarded top poster by attendees*)
- Tabitha Moses, Wayne State University (USA)
- Abigail Scheper, North Carolina State University (USA)
- Jennifer Regina Schmid, Ludwig-Maximilians-Universität München (Germany)
- Demetrio Sierra Mercado, Baylor College of Medicine (USA)
- Zaev D. Suskin, Harvard Medical School Center for Bioethics (USA)

## Sponsors

SUPPORT

We are grateful to our sponsors for their generous support.

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## Donors

And thanks to the following donors who made it possible to award 13 travel grants totaling more than \$7,000 (USD) to early career attendees presenting or receiving recognition for their work. The grant funds from the International Brain Research Organization (IBRO) enabled the INS, for the first time, to specifically provide travel support to researchers from under-resourced countries to attend.

- International Brain Research Organization
- Institut de Recherches Cliniques de Montréal
- International Neuroethics Society
- Neuroethics Canada
- Dr. Michael Patterson
- Mark Frankel
- Anonymous

INTERNATIONAL BRAIN  
**IBRO**  
RESEARCH ORGANIZATION

 **IRCM** INSTITUT DE RECHERCHES  
CLINIQUES DE MONTRÉAL

 **NEUROETHICS  
CANADA**  
BRAIN HEALTH HUMAN VALUES

The following publishers donated prizes for top abstracts and poster presentations.

- Elsevier
- Oxford University Press
- Springer



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## Additional Supporters

- Duke Science & Society
- IEEE Brain Initiative
- Penn Center for Neuroscience & Society

## Sponsorship Opportunities

All over the world, scientists, doctors and scholars are striving to uncover the mysteries of the brain and understand brain health and disease. They are making discoveries that affect medicine and public life, and these discoveries are giving rise to a host of ethical, legal, social, cultural and policy issues and questions.

The INS is a multidisciplinary organization of professionals in brain research, ethics, law, philosophy, anthropology, education and other fields, who are dedicated to addressing the challenges of new discoveries in the brain sciences, and to training the current and future generation of innovators and entrepreneurs in this rapidly evolving landscape.

A task of this magnitude and importance requires the help and support of partners and sponsors. We can only carry out our programs with the help of others who share our vision and commitment to excellence in research and innovation, informed decision-making for health, quality of life, and justice in society for people of all ages and cultures.

Opportunities are available to support the mission of the INS at individual and institutional levels. Your involvement will make a difference.

Individuals and organizations can support the INS Annual Meeting that convenes attendees each year, typically held alongside the Society for Neuroscience annual meeting.

- > **HOST A MEAL** – Sponsor a breakfast or lunch.
- > **POSTER PRESENTATION** – Sponsor the poster presentation and reception when attendees gather to discuss research.
- > **TRAVEL STIPENDS** – Provide support for abstract/poster presenters and speakers to defray the cost of attending the meeting.
- > **ENDURING MATERIALS** – Support the creation of podcasts or videos covering specific activities or thematic topics at the meeting.
- > **PROFESSIONAL DEVELOPMENT** – Sponsor a workshop, education or focused discussion.
- > **GENERAL SUPPORT** – Sponsors sustain the mission and training activities of the Society. All sponsors receive recognition, opportunities to distribute promotional materials, and complimentary meeting registrations.
- > **PARTNERSHIPS** – INS works with other professional associations and institutions to support the needs of our members and promote neuroethics across disciplines and to the public. Please contact us with your project ideas that meet our mutual interests.



*To discuss potential sponsorship and partnership opportunities, please contact Karen Graham ([kgraham@neuroethicssociety.org](mailto:kgraham@neuroethicssociety.org)).*